



con-test®
ANALYTICAL LABORATORY

39 Spruce Street, 2nd Floor
East Longmeadow, MA 01028
413.525.2332
413.525.6405 (fax)

FACSIMILE COVER PAGE**To:**

Jefferson Processing

From:

- | | |
|--|--|
| <input type="checkbox"/> Cathie Morsch | <input type="checkbox"/> Theresa Ferrentino |
| <input type="checkbox"/> Michelle Sarno | <input checked="" type="checkbox"/> Laurie Kopyscinski |
| <input type="checkbox"/> Deborah McGorry | <input type="checkbox"/> Pam Nowakowski |
| <input type="checkbox"/> _____ | |

Fax:

740-284-1721

Pages:

15 (including this one)

Phone:**Date:**

10-18-00

Re:**CC:**☒ **Laboratory Results**☐ **Urgent**☐ **For Review**☐ **Please Comment**☐ **Please Reply****Message:**

EPA Region 5 Records Ctr.



383901

<http://www.contestlabs.com>

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CONTEST



FAX (413) 525-6405

CHAIN OF CUSTODY RECORD 39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: <u>EARTH TECH</u>				Telephone: <u>(851) 572-3044</u>				Analysis Required			
Attn: <u>Charlie Keegan</u>				Batch #: _____							
Address: <u>7870 VILLA PARK DRIVE, SUITE 400</u> <u>Richmond, VA 23220</u>				Project #: <u>41637</u>				METAL SCAN 2105M 7350 Pb, Total Cr, Ni, Ar, Cd			
Site Location: <u>JEFFERSON Processing</u>				Client P.O. #: _____							
Sampled By: <u>KEN Starling</u>				Fax #: _____							
Call Results: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <u>(740) 284-1515</u>											
Fax Results: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <u>(740) 284-1721</u>											

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED		Composites	Grab	MATRIX						Preservative (Use Code)	Container (Use Code)	METAL SCAN 2105M 7350 Pb, Total Cr, Ni, Ar, Cd							
			Start Date/Time	Stop Date/Time			WASTE WATER	GROUND WATER	DIC WATER	Soil	Air	Other										
JP-BZ-040	Breathing ZONE		11-2-00 10:30	11-2-00 10:30											X	109 min	2.03	LPM				
JP-BZ-041	Breathing ZONE		11-2-00 14:00	11-2-00 18:30											X	102 min	2.04	LPM				
JP-BZ-042	BLANK														X							
JP-BZ-043	Breathing ZONE		10-4-00 07:40	10-4-00 09:40											X	190 min	2.09	LPM				
JP-BZ-044	Breathing ZONE		10-4-00 07:00	10-4-00 12:10											X	190 min	2.10	LPM				

CONTAINER CODE P: PLASTIC (____ Size) V = 40 ml vial G = Glass (____ size) A = 1000 ml Amber O = Other _____			PRESERVATIVE CODE: I = ICED N = HNO ₃ H = HCl S = NaOH T = Na ₂ S ₂ O ₃ O = OTHER _____		
Relinquished by: (Signature) <u>Ken Starling</u>	Date Time <u>10-05-00</u> <u>1711</u>	Received by: (Signature)	Turnaround Requested _____ 24-Hour <input checked="" type="checkbox"/> 48-Hour _____ Normal _____ Other _____ Date Required _____		
Relinquished by: (Signature)	Date Time	Received by: (Signature)	Remarks/Comments: <u>NEED Results By 10/16/00 → Call or FAX</u>		
Relinquished by: (Signature)	Date Time	Received by: (Signature)			



39 Spruce Street * 2nd Floor * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE 10/9/00

EARTH TECH
7870 VILLA PARK DRIVE, SUITE 400
RICHMOND, VA 23220
ATTN: CHARLIE KEEGAN

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-51393

JOB NUMBER: 41637

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: JEFFERSON PROCESSING

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
JP-BZ-040	00B26825	AIR	BREATHING ZONE	as (mg/m3) icp
JP-BZ-040	00B26825	AIR	BREATHING ZONE	cd (mg/m3) icp
JP-BZ-040	00B26825	AIR	BREATHING ZONE	cr (mg/m3) icp
JP-BZ-040	00B26825	AIR	BREATHING ZONE	ni (mg/m3) icp
JP-BZ-040	00B26825	AIR	BREATHING ZONE	pb (mg/m3) icp
JP-BZ-041	00B26826	AIR	BREATHING ZONE	as (mg/m3) icp
JP-BZ-041	00B26826	AIR	BREATHING ZONE	cd (mg/m3) icp
JP-BZ-041	00B26826	AIR	BREATHING ZONE	cr (mg/m3) icp
JP-BZ-041	00B26826	AIR	BREATHING ZONE	ni (mg/m3) icp
JP-BZ-041	00B26826	AIR	BREATHING ZONE	pb (mg/m3) icp
JP-BZ-042	00B26827	AIR	BLANK	as (mg/m3) icp
JP-BZ-042	00B26827	AIR	BLANK	cd (mg/m3) icp
JP-BZ-042	00B26827	AIR	BLANK	cr (mg/m3) icp
JP-BZ-042	00B26827	AIR	BLANK	ni (mg/m3) icp
JP-BZ-042	00B26827	AIR	BLANK	pb (mg/m3) icp
JP-BZ-043	00B26828	AIR	BREATHING ZONE	as (mg/m3) icp
JP-BZ-043	00B26828	AIR	BREATHING ZONE	cd (mg/m3) icp
JP-BZ-043	00B26828	AIR	BREATHING ZONE	cr (mg/m3) icp
JP-BZ-043	00B26828	AIR	BREATHING ZONE	ni (mg/m3) icp
JP-BZ-043	00B26828	AIR	BREATHING ZONE	pb (mg/m3) icp
JP-BZ-044	00B26829	AIR	BREATHING ZONE	as (mg/m3) icp
JP-BZ-044	00B26829	AIR	BREATHING ZONE	cd (mg/m3) icp
JP-BZ-044	00B26829	AIR	BREATHING ZONE	cr (mg/m3) icp
JP-BZ-044	00B26829	AIR	BREATHING ZONE	ni (mg/m3) icp
JP-BZ-044	00B26829	AIR	BREATHING ZONE	pb (mg/m3) icp



39 Spruce Street * 2nd Floor * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE 10/9/00

EARTH TECH

7870 VILLA PARK DRIVE, SUITE 400

RICHMOND, VA 23220

ATTN: CHARLIE KEEGAN

CONTRACT NUMBER:

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-51393

JOB NUMBER: 41637

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033

MASSACHUSETTS MA0100

CONNECTICUT PH-0567

NEW YORK ELAP 10899

AIHA ELLAP (LEAD) 100033

NEW HAMPSHIRE 2516

VERMONT DOH (LEAD) No. LL015036

RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Tod Kopycinski", followed by a date "10/9/00". The signature is written over a horizontal line.

SIGNATURE

DATE

Tod Kopycinski
Director of Operations

Edward Denson
Technical Director



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CHARLIE KEEGAN

EARTH TECH

7870 VILLA PARK DRIVE, SUITE 400

RICHMOND, VA 23220

Purchase Order No.:

10/9/00

Page 1 of 11

Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-040

Sample ID: 00B26825

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg	ND	10/06/00	PM	0.0025		
Arsenic	mg/cu m.	ND	10/06/00	PM	0.0113		

Field Sample #: JP-BZ-041

Sample ID: 00B26826

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg	ND	10/06/00	PM	0.0025		
Arsenic	mg/cu m.	ND	10/06/00	PM	0.0120		

Field Sample #: JP-BZ-042

Sample ID: 00B26827

Sampled: 10/3/00

BLANK

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg	ND	10/06/00	PM	0.0025		
Arsenic	mg/cu m.	NM	10/06/00	PM			

Field Sample #: JP-BZ-043

Sample ID: 00B26828

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg	ND	10/06/00	PM	0.0025		
Arsenic	mg/cu m.	ND	10/06/00	PM	0.0063		

RL = Reporting Limit

ND = Not Detected

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



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CHARLIE KEEGAN

EARTH TECH

7870 VILLA PARK DRIVE, SUITE 400

RICHMOND, VA 23220

Purchase Order No.:

10/9/00

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Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-044

Sample ID : 00B26829

Sampled : 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium : MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg	ND	10/06/00	PM	0.0025		
Arsenic	mg/cu m.	ND	10/06/00	PM	0.0063		

Analytical Method:

NIOSH 7300

SAMPLES ARE COLLECTED ON MIXED CELLULOSE ESTER FILTERS, DIGESTED WITH NITRIC ACID, AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY.

CALCULATIONS OF CONCENTRATIONS IN AIR ARE BASED ON INFORMATION REGARDING AIR VOLUMES AS REPORTED TO THE LABORATORY.

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EARTH TECH

7870 VILLA PARK DRIVE, SUITE 400

RICHMOND, VA 23220

10/9/00

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Purchase Order No.:

Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-040

Sample ID: 00B26825

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cadmium	mg	ND	10/06/00	PM	0.00002		
Cadmium	mg/cu m	ND	10/06/00	PM	0.00011		

Field Sample #: JP-BZ-041

Sample ID: 00B26826

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cadmium	mg	ND	10/06/00	PM	0.00002		
Cadmium	mg/cu m	ND	10/06/00	PM	0.00012		

Field Sample #: JP-BZ-042

Sample ID: 00B26827

Sampled: 10/3/00

BLANK

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cadmium	mg	ND	10/06/00	PM	0.00002		
Cadmium	mg/cu m	NM	10/06/00	PM			

Field Sample #: JP-BZ-043

Sample ID: 00B26828

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cadmium	mg	0.00008	10/06/00	PM	0.00002		
Cadmium	mg/cu m	0.00020	10/06/00	PM	0.00006		

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Purchase Order No.:

10/9/00

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Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-044

Sample ID: 00B26829

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cadmium	mg	ND	10/06/00	PM	0.00002		
Cadmium	mg/cu m	ND	10/06/00	PM	0.00006		

Analytical Method:

NIOSH 7300

SAMPLES ARE COLLECTED ON MIXED CELLULOSE ESTER FILTERS, DIGESTED WITH NITRIC ACID, AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY.

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Purchase Order No.:

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Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-040

Sample ID: 00B26825

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium	mg	0.0006	10/06/00	PM	0.0002		
Chromium	mg/cu m	0.0029	10/06/00	PM	0.0008		

Field Sample #: JP-BZ-041

Sample ID: 00B26826

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium	mg	0.0006	10/06/00	PM	0.0002		
Chromium	mg/cu m	0.0028	10/06/00	PM	0.0008		

Field Sample #: JP-BZ-042

Sample ID: 00B26827

Sampled: 10/3/00

BLANK

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium	mg	0.0005	10/06/00	PM	0.0002		
Chromium	mg/cu m	NM	10/06/00	PM			

Field Sample #: JP-BZ-043

Sample ID: 00B26828

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium	mg	0.0005	10/06/00	PM	0.0002		
Chromium	mg/cu m	0.0012	10/06/00	PM	0.0004		

RL = Reporting Limit

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ANALYTICAL LABORATORY

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7870 VILLA PARK DRIVE, SUITE 400

RICHMOND, VA 23220

Purchase Order No.:

10/9/00

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Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-044

Sample ID: 00B26829

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium	mg	0.0006	10/06/00	PM	0.0002		
Chromium	mg/cu m	0.0015	10/06/00	PM	0.0004		

Analytical Method:

NIOSH 7300

SAMPLES ARE COLLECTED ON MIXED CELLULOSE ESTER FILTERS, DIGESTED WITH NITRIC ACID, AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY.

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Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-040

Sample ID: 00B26825

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Nickel	mg	ND	10/06/00	PM	0.0001		
Nickel	mg/cu m	ND	10/06/00	PM	0.0006		

Field Sample #: JP-BZ-041

Sample ID: 00B26826

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Nickel	mg	ND	10/06/00	PM	0.0001		
Nickel	mg/cu m	ND	10/06/00	PM	0.0006		

Field Sample #: JP-BZ-042

Sample ID: 00B26827

Sampled: 10/3/00

BLANK

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Nickel	mg	0.0002	10/06/00	PM	0.0001		
Nickel	mg/cu m	NM	10/06/00	PM			

Field Sample #: JP-BZ-043

Sample ID: 00B26828

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Nickel	mg	ND	10/06/00	PM	0.0001		
Nickel	mg/cu m	ND	10/06/00	PM	0.0003		

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Purchase Order No.:

10/9/00

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Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-044

Sample ID: 00B26829

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Nickel	mg	ND	10/06/00	PM	0.0001		
Nickel	mg/cu m	ND	10/06/00	PM	0.0003		

Analytical Method:

NIOSH 7300

SAMPLES ARE COLLECTED ON MIXED CELLULOSE ESTER FILTERS, DIGESTED WITH NITRIC ACID, AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY.

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EARTH TECH

7870 VILLA PARK DRIVE, SUITE 400

RICHMOND, VA 23220

Purchase Order No.:

10/9/00

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Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-040

Sample ID: 00B26825

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg	ND	10/06/00	PM	0.0012		
Lead	mg/cu m	ND	10/06/00	PM	0.0057	0.05	P
Air Volume	liters	221.0	10/06/00	PM			

Field Sample #: JP-BZ-041

Sample ID: 00B26826

Sampled: 10/3/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg	ND	10/06/00	PM	0.0012		
Lead	mg/cu m	ND	10/06/00	PM	0.0060	0.05	P
Air Volume	liters	208.0	10/06/00	PM			

Field Sample #: JP-BZ-042

Sample ID: 00B26827

Sampled: 10/3/00

BLANK

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg	ND	10/06/00	PM	0.0012		
Lead	mg/cu m	NM	10/06/00	PM		0.05	
Air Volume	liters	NM	10/06/00	PM			

Field Sample #: JP-BZ-043

Sample ID: 00B26828

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg	ND	10/06/00	PM	0.0012		
Lead	mg/cu m	ND	10/06/00	PM	0.0032	0.05	P
Air Volume	liters	397.0	10/06/00	PM			

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39 Spruce Street * 2nd Floor * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CHARLIE KEEGAN

EARTH TECH

7870 VILLA PARK DRIVE, SUITE 400

RICHMOND, VA 23220

Purchase Order No.:

10/9/00

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Project Location: JEFFERSON PROCESSING

LIMS-BAT #: LIMS-51393

Date Received: 10/6/00

Job Number: 41637

Field Sample #: JP-BZ-044

Sample ID: 00B26829

Sampled: 10/4/00

BREATHING ZONE

Sample Matrix: AIR

Sample Medium: MCE FILTER - 37 MM

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg	ND	10/06/00	PM	0.0012		
Lead	mg/cu m	ND	10/06/00	PM	0.0031	0.05	P
Air Volume	liters	399.0	10/06/00	PM			

Analytical Method:

NIOSH 7300

SAMPLES ARE COLLECTED ON MIXED CELLULOSE ESTER FILTERS, DIGESTED WITH NITRIC ACID, AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY.

CALCULATIONS OF CONCENTRATIONS IN AIR ARE BASED ON INFORMATION REGARDING AIR VOLUMES AS REPORTED TO THE LABORATORY.

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

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** END OF REPORT **

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